

Abstract

The invention discloses a heat pump type water heater employing energy in the hot air, including a compressor, a condenser unit, a throttle valve and an evaporator unit connected to each other, in which said condenser unit is composed of a plurality of condensers, each condenser is composed of a water tank and a heat radiator within the water tank, and each water tank is provided with an inlet and an outlet in a water piping system and a hot water outlet. According to the invention, the water heater produced hot water by absorbing the heat energy in the environment using heat pump principle so that the heat pollution to the environment is reduced and the energy is saved because of supplying hot water while providing refrigerating capacity. By connecting a plurality of condensers in series, hot water with different temperatures from 45° C – 100° C can be dispensed from the water outlets of the condensers, the two evaporators can provide refrigerating capacity directly and indirectly respectively and the condenser unit having its own housing can be connected to the existing air-conditioners to supply hot water.